

**Notice of Allowability**

Application No.

10/807,861

Examiner

Cynthia Hamilton

Applicant(s)

KANG ET AL.

Art Unit

1752

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/12/2005.
2. ☒ The allowed claim(s) is/are 11-13, 15-19, 21-23.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
CYNTHIA HAMILTON  
EXAMINER

### **EXAMINER'S AMENDMENT**

1. This amendment is made to put the claims in proper form for allowance. Applicants have clearly stated in their remarks that claims 24-35 are cancelled. They did not put the required statement in the list of claims.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Replace the list of patent claims presented on December 12, 2005 with the list attached hereto as to add the cancelled claims 24-35 as required under 37 CFR 1.121.

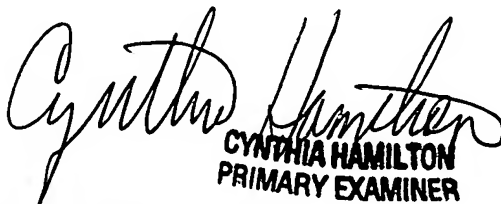
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia Hamilton whose telephone number is 571-272-1331.

The examiner can normally be reached on Monday through Friday 9:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly can be reached on (571) 272-0729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**CYNTHIA HAMILTON  
PRIMARY EXAMINER**

December 20, 2005

Cynthia Hamilton  
Primary Examiner  
Art Unit 1752

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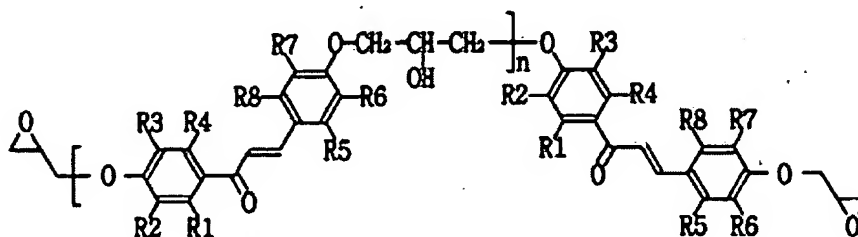
**IN THE CLAIMS:**

Please amend the claims as follows. No new matter is introduced.

1-10. (Canceled) 

11. (Previously Presented) A resist composition comprising:

(a) a compound comprising an epoxy group and a chalcone group represented by the following formula:



wherein n is an integer from 1 to 10,000 and each of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> is selected from a group consisting of a hydrogen atom, an alkyl group, an alkoxy group, a halogen atom and a nitro group;

- (b) an acrylate resin;
- (c) a curing agent; and
- (d) an organic solvent.

12. (Original) The resist composition of claim 11, wherein the resist composition includes about 5 to about 35 parts by weight of the compound, about 0.01 to about 5 parts by weight of the curing agent, and about 60 to about 90 by weight of the organic solvent.

13. (Original) The resist composition of claim 11, wherein the organic solvent is propylene glycol monomethyl ether acetate, ethyl ethoxy acetate, or cyclohexanone.

14. (Canceled)

15. (Previously Presented) The resist composition of claim 11, wherein the resist composition includes about 5 to about 35 parts by weight of a combination of the acrylate resin and the compound, about 0.01 to about 5 parts by weight of the curing agent, and about 60 to about 90 by weight of the organic solvent.

16. (Previously Presented) The resist composition of claim 11, further comprising a pigment, wherein the pigment is dissolved in a solvent.

17. (Previously Presented) The resist composition of claim 16, further comprising a dispersant for dispersing the pigment in the photoresist composition.

18. (Previously Presented) The resist composition of claim 11, further comprising a photo-initiator.

19. (Original) The resist composition of claim 18, wherein the photo-initiator is benzl dimethyl ketal, diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, or bis(trichloromethyl)-s-triazine derivative.

20. (Canceled)

21. (Original) The resist composition according to claim 11, wherein the compound has a weight average molecular weight of about 800 to about 20,000.

22. (Original) The resist composition according to claim 16, wherein the pigment is a red, blue, green, yellow, or violet pigment.

23. (Original) The resist composition according to claim 11, wherein the curing agent is a dipentaerithritol hexaacrylate or a trimethylolpropane trimethacrylate.

24-35. (Canceled)